



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

AUG 26 1977

Docket No. 50-213-782

Licensee

RE: HADDAM NECK PLANT

Gentlemen:

The NRC is presently preparing a summary of radioactive effluents released from commercial nuclear power plants during 1976. The report will be similar to NUREG-0218, "Radioactive Materials Released from Nuclear Power Plants (1975)".

In order to verify the accuracy of the information before its publication, a draft copy of the data with respect to your plant(s) is enclosed for your review. We would appreciate receiving your comments and suggested changes by September 16, 1977. If there are changes to the enclosure that result from other than our transcription error, we request that you file an amendment to your semi-annual reports which includes a reason for the change. Also, please provide answers to any questions attached to or on the enclosed data sheets, the name and telephone number of the individual we should contact in the event that we find it necessary to clarify your comments in answer to this request. Please provide a written response even if no changes to the data are required. Responses should be addressed to:

U. S. Nuclear Regulatory Commission
Office of Management Information & Program Control
Operating Data Branch, 12105 MNBB
Washington, D. C. 20555

Any questions should be referred to T. R. Decker (301-492-7735). A copy of the final report will be sent to you.

Sincerely,

A handwritten signature in cursive script, appearing to read "Albert Schwencer".

Albert Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors

Enclosure:
Draft Copy of Data

cc w/enclosure:
See next page

Connecticut Yankee Atomic Power Company

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August 26, 1977

cc: Day, Berry & Howard
Counselors at Law
One Constitution Plaza
Hartford, Connecticut 06103

Russell Library
119 Broad Street
Middletown, Connecticut 16457

Superintendent
Haddam Neck Plant
RFD #1
Post Office Box 127E
East Hampton, Connecticut 06424

FACILITY: CONNECTICUT YANKEE

TYPE: PWR

LOCATION: 9.5 MI SE MIDDLETOWN CT

COOLING WATER SOURCE: CONNECTICUT RIVER

DUCKET NO: 50-213

LICENSED POWER (MWT): 1825.0 0.0 0.0

INITIAL CRITICALITY: 07/24/67

OPERATION

GROSS THERMAL GENERATION	12964154.0	MWHT
NET ELECTRICAL	4027805.0	MWHE
THERMAL CAPACITY FACTOR (DURING COMMERCIAL OPERATION)	80.9	PER CENT

SUMMARY OF EFFLUENTS

AIRBORNE

A) TOTAL NOBLE GASES	$<4.53E+02$	CURIES
B) TOTAL I-131	$7.33E-04$	CURIES
C) TOTAL HALOGENS (INCLUDING I-131)	$<7.33E-04$	CURIES
D) TOTAL PARTICULATES	$<1.65E-04$	CURIES
E) TOTAL TRITIUM	$7.38E+02$	CURIES

LIQUID

A) TOTAL MIXED FISSION AND ACTIVATION PRODUCTS	$<1.30E-01$	CURIES
B) TOTAL TRITIUM	$4.85E+03$	CURIES
C) DISSOLVED NOBLE GASES	$<3.18E-02$	CURIES
D) VOLUME OF LIQUID WASTE RELEASED	$6.09E+07$	LITERS
E) VOLUME OF DILUTION WATER	$6.99E+11$	LITERS

SOLID WASTE

A) VOLUME	$7.67E+02$	CUBIC METERS
B) ACTIVITY	$7.46E+02$	CURIES
C) NUMBER OF SHIPMENTS	$4.20E+01$	

* IF SUMMARY
VALUES ARE
DIFFERENT THAN
THE SUM OF
ISOTOPES PLEASE
EXPLAIN DISCREPANCY.

AIRBORNE EFFLUENTS (CURIES)

NOBLE GAS

AR-37	2.17E+01
KR-85	1.29E+02
KR-95M	<7.84E-02
KR-87	<5.29E-01
KR-88	<7.67E-01
XE-131M	<1.03E+00
XE-133	2.98E+02
XE-135	<1.59E+00
XE-135M	<2.90E-01
XE-138	<4.00E-06

HALOGENS

I-131	7.33E-04
I-133	<1.00E-11
I-135	<1.80E-11

PARTICULATES

DE-7	1.19E-05
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CR-51	1.45E-06
MN-54	7.30E-06
CU-58	6.45E-06
CO-60	8.35E-05
SR-89	<4.40E-14
SR-90	1.56E-06
RU-103	2.08E-07
RU-106	3.63E-08
CS-134	9.24E-06
CS-137	4.52E-05
BA/LA-140	<1.00E-12

OTHER GASES

TRITIUM	C-14	2.0E+01
	H-3	7.38E+02

← WAS THIS VALUE MEASURED OR CALCULATED?

PLEASE EXPLAIN

LIQUID EFFLUENTS (CURIES)

AR-37	<6.92E-06
KR-85	1.84E-04
XE-133	<2.95E-02
XE-135	<2.12E-03
I-131	<1.12E-03
I-133	<1.91E-05
DE-7	<3.40E-06
CR-51	<1.10E-03
MN-54	<6.36E-03
CO-57	<2.33E-04
CO-58	<1.37E-02
FE-59	<4.00E-06
CO-60	<7.34E-02
ZN-65	<3.56E-06
SR-89	<6.92E-04
SR-90	<1.11E-04
ZR/ND-95	<6.40E-07
M()-99	<4.00E-06
TC-99M	<2.00E-06
RU-106	<6.62E-05
AG-110M	<6.37E-05
SB-124	<1.13E-03
SB-125	<5.73E-04
CS-134	<3.14E-03
CS-137	<2.29E-02
BA/LA-140	<4.30E-06
CE-141	<1.08E-06
CE-144	<1.27E-03
EU-154	<4.00E-06
UNIDENTIFIED	<3.66E-03

TRITIUM

H-3	4.05E+03
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PLEASE EXPLAIN USE OF LESS THAN
NOTATION OR MAJORITY OF ISOTOPES.

END

DATE FILMED

1 / 25 / 78